

DEPARTMENT: Chemistry & Life Science

POC Name: MAJ Armand Balboni

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DATE: 31 October 2019

Top 3-5 events, activities, and newsworthy happenings UPCOMING in the next 30 days.

1. The Department of Chemistry and Life Science sent four cadets and one OR to the Society of Rheology 91st Annual Meeting in Raleigh, NC. The following 25 minute oral presentations were given:
 - a. Large Amplitude Oscillatory Shear (LAOS) Flow as a Metric of Comparison for Contemporary Human Blood Rheological Models, by LTC Matthew Armstrong and Cadet Michael Deegan
 - b. Using Rheology to Optimize the Chocolate Process by Cadet Payton Boyltson, LTC April Miller, Cadet B. Schieve, Cadet A. Zammit, Cadet T. Kim, Cadet C. Mitchell and LTC Matthew Armstrong.
2. The following posters were presented:
 - a. Determination of Statistically Significant Correlations Between Physiological and Rheological Model Parameters of Human Blood by Cadet Michael Deegan and LTC Matthew Armstrong
 - b. Rheological and parametric analysis of the effects of aspirin on human blood by Cadets Wes Pulles, Katelyn Rook and LTC Matthew Armstrong
 - c. Mechanical Contour Mapping of Human Blood by LTC Matthew Armstrong
3. Cadet Sawyer Madsen '20, Alex Hamilton '20, Connor Beckman '22 along with LTC Dan Baha from the Chemistry and Life Science Department present their research at the inaugural America Institute of Chemical Engineers (AIChE) Battery and Energy Storage Workshop in New York City. The day was spent attending numerous talks from leading researchers, manufactures and utility companies on the topics of experimental next generation batteries, current production of batteries targeted towards grid applications and large-scale smart grids for urban environments such as New York City. At the conclusion of the day the Cadets participated in a poster session, presenting their current research pertaining to advanced battery design and organic solar panels.

DEPARTMENT: CME

POC Name: MAJ Joe Cymerman

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DATE: 28 October 2019

Top 3-5 events, activities, and newsworthy happenings UPCOMING in the next 30 days.

1. Dept. R&A, 4 November

Top 3 events, activities, and newsworthy happenings FROM THE PREVIOUS 7 days.

1. Design Patent Awarded for West Point Class of 2016 CME Graduates Cameron Hargis, Drury Milke, and Ryan Meyer. A United States Design Patent was awarded on 17 September 2019 to three Class of 2016 graduates of the Civil & Mechanical Engineering program at West Point. Cameron Hargis, Drury Milke, and Ryan Meyer invented a muzzle brake, which affords soldiers better control of the M249 5.56 mm light machine gun. The design was created in order to develop a system to reduce the recoil and muzzle climb of the M249 to increase soldiers' accuracy, allowing them to more effectively engage targets. Under faculty advisors MAJ Brodie Hoyer and LTC Richard Gash, the three cadets developed a muzzle brake/compensator and a recoil pad that reduced the muzzle climb and recoil force experienced by the user. The resulting brake-pad combination resulted in a greater than 50% reduction in both force and pitch experienced in both single-shot and 5-round burst modes. The team was supported by two subject matter experts from Picatinny's Armament Research, Development and Engineering Center, assisting with indoor range testing and prototype manufacturing. Mr. Frank Blackmon from CME also aided the inventors in prototyping. POC is LTC James Bluman at james.bluman@westpoint.edu.

2. Civil Engineering First Class Cadets Trip Section. On Friday, 18 October, civil engineering First Class cadets participated in a trip section as part of Moles Day. The Moles organization (<http://www.themoles.info/>) is composed of individuals now or formerly engaged in the construction of tunnels, subways, sewers, foundations, marine, sub-aqueous or other heavy construction projects. The group hosts an annual Moles Student Day, during which students are invited to tour some of the largest construction sites in the metro New York City area. This year, nearly 400 civil engineering students from 20 different academic institutions visited the 10-mile construction project adding a third rail line to the Long Island Railroad. This project has incorporated innovative construction practices to add this important main commuter line with minimal disruption to the other two tracks. For example, bridges have been replaced in 55 hours or less, underpasses have been created to replace at-grade crossings in 55 hours or less, and new construction technologies have been used for the first time in the United States. POC: LTC Jakob Bruhl, Jakob.bruhl@westpoint.edu.

3. USMA Technical Scholars summit with MIT Lincoln Laboratory and Draper Laboratory, October 23-24, 2019. Department of Civil and Mechanical Engineering faculty members COL Michael Benson, MAJ Patrick Linford, and CPT(P) Jeremy Paquin accompanied 19 Cadets with nine different technical majors (including seven cadets from CME) from the Class of 2019 to Charles Stark Draper Laboratory, Cambridge, MA and Massachusetts Institute of Technology

(MIT) Lincoln Laboratory (LL) from October 23-24, 2019. Cadets received briefings on the prestigious graduate research fellowship programs available to them via the respective laboratories' military fellows programs. Additionally, cadets interviewed with various professors and laboratory directors from MIT, Harvard, Northeastern, and Tufts as part of the advanced graduate studies application process. On Thursday, October 24, 2019, the team met with Dr. Sheila Hemami (Director, Strategic Technical Opportunities, Draper Laboratory). Cadets learned how the Draper Fellowship provides a unique opportunity for students to benefit from not only immersion in their university's academic research environment, but also from Draper's facilities, collective knowledge and experience. In the afternoon, the technical scholar team attended MIT Lincoln Laboratory (LL), hosted by Robert Loynd, (Executive Officer & Chief of Staff of the Director's Office). Finally, cadets toured the state-of-the art facilities and were afforded the opportunity to discuss ongoing research with current military fellows. This trip was undoubtedly impactful on these young technical scholars. The Academy's top technical talent was gathered in one place to gain their first exposure to higher-level graduate education opportunities. The cadets overwhelmingly appreciated the immersive experience and witnessed first-hand the depth of expertise that exists in the world's densest university population.

DEPARTMENT: Department of Foreign Languages

POC Name: CPT Balazs Peszeki

POC Email: balazs.peszeki@westpoint.edu

DATE: October 30, 2019

Top 3-5 events, activities, and newsworthy happenings UPCOMING in the next 30 days.

1. On November 5, General Consul David Gill of the German Consulate in New York City will visit West Point. Mr. Gill will have an office call with the Commandant of Cadets, tour the Academy, and attend lunch with the Corps of Cadets.
2. On November 11-13, CPT Balazs Peszeki will conduct a site visit to Germany and Austria. He will visit with Cadets and international partners at the *Universität der Bundeswehr* in Munich, Germany, and the *Theresianische Militärakademie* in Wiener Neustadt, Austria.
3. CPT Jeremy Gardinier will lead four Chinese majors to Hawaii for participation in USARPAC's annual Disaster Management Exchange with China's People's Liberation Army from November 17 to November 22. Cadets will engage in Chinese to facilitate table top and practical field exchanges to provide interaction between both armies focused on humanitarian assistance and disaster relief.
4. On November 22-24, Dr. John Benjamin will attend the American Council on the Teaching of Foreign Languages annual conference in Washington, DC.

5. The Spanish Section continues to plan the execution of the Chilean Ambassadorial visit to USMA on November 28. The Chilean Ambassador will visit with the Superintendent and give a lecture during the Dean's Hour. The section also continues to monitor current events in Chile and Spain as protests have caused civil instability. Currently, there are USMA Cadets at both the *Escuela Militar* (Chile) and *Academia General Militar* (Spain).

Top 3 events, activities, and newsworthy happenings FROM THE PREVIOUS 7 days.

1. Cadets Daniel Archer, Jonathan-Scott Davidson, Charles Landefeld, and Benjamin Wiggins conducted a Field Training Exercise (FTX) as a part of their semester abroad at Saint Cyr, France. Cadets Lani Perkuchin, Amanda Southard, and Kevin Shema completed a week-long immersion with the 1st Spahis Regiment, a French Light Cavalry regiment in Lyon, France. French Army officers and soldiers familiarized the three Cadets on French Army equipment, customs and courtesies, and physical training, while Cadets gave a presentation on West Point to members of the regiment.
2. COL Eugene Gregory participated in the Law Department's Annual Lieber Conference and contributed the paper "*The Normative Value of the Law of Armed Conflict within Chinese Communist Party-State 'Legal' Discourse*". COL Gregory served as the table advisor for the Indo-Pacific Table for the SCUSA conference.

DEPARTMENT: Department of English and Philosophy

POC Name: CPT Steven Modugno

POC Email: steven.modugno@westpoint.edu

DATE: 31 OCT 19

Top 3-5 events, activities, and newsworthy happenings UPCOMING in the next 30 days.

1. On 5 NOV, at 1235-1350, the Department of English and Philosophy will be hosting Hugo Slim, the policy director of the International Committee of the Red Cross. He will be delivering a lecture to the Philosophy Forum, as well as cadets in PY325 and PY251, titled, "What's the Difference? Humanitarian and Military Virtues Compared." This event will take place in Thayer Hall, Rm. 144.
2. On 23 NOV, the West Point's Ethics Debate Team will compete in the 2019 Northeast Regional Ethics Bowl at Salisbury University. The team will compete against 24 other colleges and universities from across the Northeast. The top four teams will qualify for the National Ethics Bowl in February.

DEPARTMENT: G&EnE

POC Name: MAJ John Boyle

POC Email: john.boyle2@westpoint.edu

DATE: 31 October 2019

Top 3-5 events, activities, and newsworthy happenings UPCOMING in the next 30 days.

1. From 01-02 November, LTC Ben Wallen and CPT Andy Ng (G&EnE) will join Cadets Ashtyn Hanna, Wyatt Espell, and Patrick Swanton at the 2019 American Society of Engineering Education (ASEE) Regional Conference in NYC. They will present their Reverse Osmosis membrane research which highlights the link between AIAD's, independent study opportunities, and curriculum support of ABET objectives.
2. On 04 November, LTC Kimball (G&EnE) with the physical geology cadets (EV388A) will conduct field geology exercises throughout the Hudson Valley. They will drive and hike to 11 different destinations throughout the day to investigate the geologic history of the how the Hudson Valley formed. Interpreting their findings will also show how rock and mineral resources have been used to engineer and develop modern infrastructure.
3. On 09 November, CPT Nathaniel Sheehan (G&EnE) will escort six cadets to the NYC Society of American Military Engineers (SAME) Scholarship Fund Dinner Dance at the Grand Hyatt Hotel in New York. At this event, five engineering cadets from five different engineering discipline at USMA will received named \$500 scholarships for their excellence in the classroom here at the academy.
4. On 17 November, MAJ Erick Martinez (CLS) and CPT Tim Flagg (G&EnE) will take Society of American Military Engineers (SAME) Student Chapter cadets to support Habitat for Humanity at a NY site. Cadets have supported this site for several years, which provides affordable housing to military related families in the region.
5. On 20 November, the G&EnE department will host an annual "EV396 Beer Tasting" event with all Environmental Science and Environmental Engineering majors. This serves to celebrate the scientific achievement by members of the Class of 2020 and 2021 enrolled in EV396: Environmental Biological Systems. This event is also an important opportunity for faculty and cadets to better understand and appreciate the science behind this common beverage and helps develop a mature perspective on alcohol use and consumption.

Top 3 events, activities, and newsworthy happenings FROM THE PREVIOUS 7 days.

1. On 30 October the Director of Planning and Development in Newburgh NY, Alexandra Church, spoke to cadets in Land use Planning and Management (EV391a). She spoke about some of the challenges which planners face and current planning projects in Newburgh, NY.

DEPARTMENT: Mathematical Sciences
POC Name: Yoselin Brice
POC Email: yoselin.brice@westpoint.edu
DATE: 31 October 2019

Top 3-5 events, activities, and newsworthy happenings UPCOMING in the next 30 days.

1. On 07 November 2019, Dr. Carl Lee, from Department of Mathematics at the University of Kentucky will present a talk on Game Theory: An Invitation to Mathematical Reasoning. He will examine a sequence of games that can lead naturally to mathematical concepts, exploration, reasoning, conjectures, and proofs. The games themselves will be accessible to players with varied math backgrounds, and thus will provide a natural and inviting way to encounter, experience, and strengthen math reasoning.

Top 3 events, activities, and newsworthy happenings FROM THE PREVIOUS 7 days.

1. On 20 October 2019, the Department of Mathematical Sciences posted their premiere episode of "P-Tea Session" on facebook <https://www.facebook.com/westpointmath/>. This is a new initiative where Mathlete Cadets have a chance to interview faculty members to get to know them a little better over tea and math themed cookies. This first episode stars CDT Reilly McGinnis, Class of 2021, Operations Research Major, interviewing the Department Head, COL Tina Hartley.
2. On 24 October 2019, the Math department hosted a dual (virtual and in-person) informational meeting for field grade and future field grade military faculty as they prepare to transition from teaching at West Point to rejoining the Army's Operational Force. Supporting this effort were a previous Chief of Staff for 3ID and a Battalion Commander along with several senior Majors skyping in from around the world. They represented a wide-variety of branches and provided their insight, understanding, and best practices.
3. On 24 October 2019, several members of the ORSA community representing Deployed ORSAs, USFK, Division ORSAs, CAA, G8, G1, TRAC, HRC, and "Island" ORSAs, provided a synopsis of what ORSAs can expect when they are operating throughout the ORSA community. There was opportunity for all to discuss specific questions with these representatives. With approximately 45 personnel from departments throughout USMA, this was a well-received and timely panel as it occurred prior to slate decisions for ORSAs leaving West Point this coming summer.
4. On 25 October 2019, MAJ Walsh recorded a podcast with the Modern War Institute (MWI). The hour-long talk focused on combat experiences. He recorded the story of how he was wounded in action during hand-to-hand combat on Dec 01, 2013. The podcast goes live in November for The Spear series.

DEPARTMENT: Physics and Nuclear Engineering
POC Name: Kim M. Lee
POC Email: kim.lee@westpoint.edu
DATE: 31 October 2019

Top 3-5 events, activities, and newsworthy happenings UPCOMING in the next 30 days.

1. On 1 November, BG(R) Ed Naessens will promote LTC/P Pete Chapman to the rank of Colonel.
2. During 3-6 November, COL John Hartke will travel to Ft. Sill, OK to attend the HEL testing and MFIX VIP Day.

Top 3 events, activities, and newsworthy happenings FROM THE PREVIOUS 7 days.

1. On 24 October, thirty NE majors and minors participated in an Applied Radiation Detection Exercise at the Aachen MOUT site as part of a lab requirement for NE452 (Instrumentation and Shielding). The cadets donned tactical gear, organized into search elements, selected appropriate radiation detection equipment, and volunteer leaders developed hasty plans to address four scenarios, briefing plans to the USMA G3 prior to moving teams down range. During the AAR, cadets stated how much they appreciated the legitimacy of the scenarios, the use of role players speaking foreign languages, the access to advanced radiation detection equipment on loan from DTRA, the use of the D/CME Polaris MRZR, and the chance to execute hasty planning under ambiguous conditions.
2. On 25 October, the Department conducted an open house in support of the 2019 USMA Family Weekend.

DEPARTMENT: Systems Engineering
POC Name: CPT Clay Woody
POC Email: clay.woody@westpoint.edu
DATE: 201901031

Top 3-5 events, activities, and newsworthy happenings UPCOMING in the next 30 days.

1. The ORCEN will visit the Capital Factory and Futures Command in Austin, TX 5-7NOV. The primary purpose will be to present ongoing research with the Aviator Training Next (ATN) program at Fort Rucker, AL highlighting the innovative contributions it could enable within the department. The ORCEN team will also meet with Army Applications Lab (AAL) IOT discuss specific emerging and disruptive technologies that could enable innovation across the DSE capstone, AIAD, and research spectrum.
2. The ASEM Club will guest speaker Mr. Ben Nolan, Managing Director, Berkeley Research Group, LLC during its monthly meeting on 15NOV.

3. Dr Jose Jimenez will be promoted to major in our conference room at noon on Thursday. Jose serves as a Medical Service Corps officer in the US Army Reserves.

Top 3 events, activities, and newsworthy happenings FROM THE PREVIOUS 7 days.

1. At the annual American Society for Engineering Management, the DSE cadet case study team earned first place out of a field of 10 teams. Hats off to MAJ Dan Newell who served as the advisor to cadets Evan Brunner, Caneel Dixon, Justin Thomas, and Mitchell McHugh. Teams develop and present a business case-study recommendation over the course of a six-hour timeframe. Our cadets showed their ability to analyze, problem solve, and brief a winning solution.
2. DSE Deputy Dr. Kenny McDonald and our ORCEN Director LTC Jim Schreiner were inducted as ASEM Fellows at a ceremony in Philadelphia last week. Fellows must demonstrate significant service to the Engineering Management profession, demonstrated engineering management accomplishments, and continuing distinguished service and contributions to the Society. This distinction is very rare and is reserved for the global leaders in the field of Engineering Management.
3. Dr. Gregory Graves and his cadet capstone team, CDTs Bailey Abercrombie, Glen Coates, Sydney Morriss, and Hadiyah Underwood, visited Picatinny Arsenal on 28OCT Cadets we informed of the how CCDC-AC is working on incorporating AI and automation into fire control systems as well as the proposed capabilities of Long-Range Precision Fires (LRPF) and the Next Generation Combat Vehicle (NGCV).

DEPARTMENT: Social Sciences

POC Name: LTC Josh Richardson

POC Email: joshua.richardson@westpoint.edu

DATE: Week of 28 October 2019

Top 3-5 events, activities, and newsworthy happenings UPCOMING in the next 30 days.

1. 14 November: Professor Richard Shultz, Professor of International Politics and director of the International Security Studies Program at Tufts Fletcher School, will deliver an evening lecture titled "The Fight Against Al-Qaida in Iraq: A Case Study on U.S. Special Operations Task Force 714." Dr. Shultz' recent research focuses on military innovation; specifically, how U.S. SOF innovated to defeat AQI. Since the mid-1980s, he has served as a security consultant to various U.S. government agencies concerned with national security and in 2013 he published "The Marines Take Anbar: The Four-Year Fight to Defeat al Qaeda in Iraq."
2. 18 November. COL (R) Herman Bulls, the Vice Chairman of JLL, Americas, will guest lecture during Dean's Hour on "The Role of the Board of Directors" to SS394: Financial Statements Analysis. In addition to his role with JLL, Americas, COL(R) Bulls also serves on numerous corporate boards including USAA and the American Red Cross. A SOSH

faculty alumnus, COL(R) Bulls is regularly recognized for his influence as a board member including recently as one of the most influential black businessmen in America.

3. 21 November. Dr. Jakub Grygiel, an Associate Professor at the Catholic University of America, will present a guest lecture titled “American Foreign Policy After Liberal Hegemony” to cadets in SS473: American Foreign Policy. Dr. Grygiel previously served as a senior advisor to the Secretary of State in the Office of Policy Planning working on European affairs as well as on the faculty at Johns Hopkins SAIS. He is the author of several books including *Return of the Barbarians* and *Great Powers and Geopolitical Change*.

Top 3 events, activities, and newsworthy happenings FROM THE PREVIOUS 7 days.

1. 24-27 October. The Model United Nations Team traveled to New Haven, CT for the Yale University Model United Nations Conference (SCSY). From among a field including Princeton, UC Berkeley, Harvard, UPenn, and many others Army MUN the Outstanding Large Delegation award (overall second place). CDTs Jacob Wells ('20), Hunter Hill ('20), Hunter Arnold ('21), Matthew Armstrong ('22), and Amanda McDonough ('22) won individual awards.
2. 25 October. The CTC welcomed CMSgt Shawn Peno, the Senior Enlisted Leader for J3 at JFHQ-NY, who guest lectured in our SS464: Homeland Security & Defense course. He focused his remarks on the military's role in homeland security; various operational statuses of the military operating in the homeland; the use of dual status commanders; and defense support to civil authorities. In addition, members of the Fire Department of New York (FDNY) met with the same cohort of cadets to discuss the incident command system and the importance of collaboration in responding to homeland security events in preparation for their upcoming joint exercise in homeland security with the FDNY, which will occur on 19 November.
3. 18-20 October. Members of the International Affairs Forum (IAF) attended the Tufts SIMULEX which was centered on a crisis in the Indo-Pacific region. Cadets were assigned to different country teams alongside graduate students from Tufts, and devised strategy papers and policy responses to achieve objectives as the crisis unfolded. CDT Josh Smoak (IAF CIC) was recognized by the Tufts military fellows as one of the exercise's outstanding participants.

DEPARTMENT: WPWP

POC Name: Wynn Klosky

POC Email: Wynn.Klosky@westpoint.edu

DATE: 10/24/2019

Top 3-5 events, activities, and newsworthy happenings UPCOMING in the next 30 days.

1. In November, the Mounger Writing Center will host two subject-specific writing groups in the evenings. Sign up is available now on the MWC website (usma.mywconline.com). These drop-in groups will meet from 1930-2200 at designated tables in the MWC. Cadets may come and go according to their schedules. Group members will ask questions, offer support, and draw on the strengths of their peers, including Cadet Writing Fellows. Documentation guidance will be available. From Mon-Wed, 04-06 NOV, the SOSH Writing Group will meet; from Tues-Thurs, 12-14 NOV, the MilArts (HI302) Writing Group will meet. POC for these groups is Ms. Wynn Klosky (Program Manager, WPWP), wynn.klosky@westpoint.edu, x0466.
2. On Wednesday, 06 NOV, the West Point Writing Program Workshop Series continues with “The Craft of Writing for MilArt.” CPT Steve Beckman (HIST), Dr. Colleen Eils (Acting Director, WPWP), and several Cadet Writing Fellows will offer tips and strategies for writing strong HI302 papers. The workshop will meet in JH002 from 2000-2050. All are welcome; no reservations are needed to attend.
3. The final Faculty Writing Group session of 20-1 will be held Tues, 12 NOV, from 1200-1350 in JH401. The informal open-door sessions hosted by Dr. Colleen Eils (Acting Director, WPWP) give faculty members a dedicated time and space to work on their writing projects; all are welcome to join the group for as much or as little time as their schedules allow. POC: Dr. Colleen Eils (colleen.eils@westpoint.edu)

Top 3 events, activities, and newsworthy happenings FROM THE PREVIOUS 7 days.

1. Business at the Mounger Writing Center has been brisk so far this year! Writing Fellows served a whopping 472 appointments, up 36% since this same time last year. Clients continue to report great satisfaction with the support they receive, with 99% responding that they found their consultation “Helpful” or “Very Helpful.” MWC usage seems destined to grow, with many repeat customers and 98% of clients reporting that they “Would Recommend” the MWC to others.